# APPENDIX I: CONSTRUCTIVE REDUCTION TO PRACTICE<sup>2</sup>

# New Claim

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

## Support in the Present Application (09/589,288)

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 83:7-10

"The antagonists may be employed for instance to inhibit Neutrokine-alpha-mediated and/or Neutrokine-alphaSV-mediated chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases." p. 331:15-19

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."

p. 24:10-15

"Additionally, as described in detail below, the polypeptides of the present invention have uses that include, but are not limited to, to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function." p. 223:17-22

"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 24:14-15. See also p. 429:13 - p. 433:2

"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or

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<sup>&</sup>lt;sup>2</sup> These tables present exemplary support in the present application and in each of the priority cases to the present application to demonstrate that each application contains a constructive reduction to practice of the invention of the proposed count. Applicants reserve the right to supplement these tables as may be required.

New Claim	Support in the Present Application (09/589,288)
	Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 366:12-15
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 24:19-20
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 114:13-15
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen." p. 376:23-25
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, Nature 256:495-497 (1975) and U.S. Patent No. 4,376,110; Harlow et al., Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; Monoclonal Antibodies and Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))." p. 377:3-10
199. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following

New Claim	Support in the Present Application (09/589,288)
wherein the antibody is recombinantly produced.	disclosure:
·	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."  p. 243:21-24
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."  p. 307:7-16
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 376:23-25
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not

New Claim	Support in the Present Application (09/589,288)
	limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen." p. 234:15-19
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described herein."  p. 331:13-14
	"The agonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 338:18-19
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 366:9-15
	"An in vitro cell proliferation, cytotoxicity, cell survival, and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation and/or survival modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and other immune-related diseases."  p. 82:4-15

New Claim	Support in 09/507,968
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,

antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

# Support in 09/507,968

monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types." p.67:1-4.

"The antagonists may be employed for instance to inhibit Neutrokine-alpha-mediated and/or Neutrokine-alphaSV-mediated chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases." p. 269:28-32

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."

p. 20:1-6

"Additionally, as described in detail below, the polypeptides of the present invention have uses that include, but are not limited to, to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function." p. 181:31 - p. 182:3

"Preferred antagonists for use in the present invention are Neutrokine alpha specific and/or Neutrokine alphaSV specific antibodies." p. 20:5-6. See also p. 350:15 - p. 353:13

"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 298:19-22

"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha."

New Claim	Support in 09/507,968
	p. 20:10-11
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 92:21-23
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen." p. 307:6-8
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, <i>Nature</i> 256:495-497 (1975) and U.S. Patent
	No. 4,376,110; Harlow et al., Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; Monoclonal Antibodies and Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))." p. 307:12-19
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."

New Claim	Support in 09/507,968
	p. 198:13-16
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 250:3-12
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 307:6-8
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen."  p. 190:29-33
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203

New Claim	Support in 09/507,968
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described herein."  p. 269:26-27
	"The agonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter." p. 275:23-24
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 298:16-22
	"An in vitro cell proliferation, cytotoxicity, cell survival, and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation and/or survival modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and other immune-related diseases."  p. 66:3-14

New Claim	Support in 60/176,015
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-alpha is active in directing
	the proliferation, differentiation and migration of these
MDDSTEREQS RLTSCLKKRE	cell types."
EMKLKECVSI LPRKESPSVR	p. 61:16-19
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha-mediated and/or
GLEEAPAVTA GLKIFEPPAP	Neutrokine-alphaSV-mediated chemotaxis and

New Claim	Support in 60/176,015
GEGNSSQNSR NKRAVQGPEE TVTQDCLQLI ADSETPTIQK GSYTFVPWLL SFKRGSALEE KENKILVKET GYFFIYGQVL YTDKTYAMGH LIQRKKVHVF GDELSLVTLF RCIQNMPETL PNNSCYSAGI AKLEEGDELQ LAIPRENAQI SLDGDVTFFG ALKLL wherein B lymphocytes are inhibited.	activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."  p. 275:9-13  "A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present
	invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 16:3-8  "Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 177:14-19
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 16:7-8. See also p. 356:5 - p. 359:6  "An agonist is a compound which increases the natural
	biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 301:7-10
106. A mathod of inhibiting P lumphoguta	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha."  p. 16:12-13  See support for Claim 195
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective	See support for Claim 195

New Claim	Support in 60/176,015
amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 86:11-13
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 309:32 - p. 310:2
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, Nature 256:495-497 (1975) and U.S. Patent No. 4,376,110; Harlow et al., Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; Monoclonal Antibodies and Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))." p. 310:6-13
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."  p. 194:5-8
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be

New Claim	Support in 60/176,015
	produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533;
	Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 253:27 - p. 254:4
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 309:32 - p. 310:2
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen."  p. 186:15-19
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 275:7-8
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically

New Claim	Support in 60/176,015
	acceptable carrier, e.g., as described hereinafter." p. 276:23-25
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 301:4-10
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and other immune-related diseases."  p. 60:14-25

New Claim	Support in 60/171,626
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-alpha is active in directing
•	the proliferation, differentiation and migration of these
MDDSTEREQS RLTSCLKKRE	cell types."
EMKLKECVSI LPRKESPSVR	p. 59:31 - p. 60:1
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha-mediated and/or
GLEEAPAVTA GLKIFEPPAP	Neutrokine-alphaSV-mediated chemotaxis and
GEGNSSQNSR NKRAVQGPEE	activation of macrophages and their precursors, and of
TVTQDCLQLI ADSETPTIQK	neutrophils, basophils, B lymphocytes and some T-cell
GSYTFVPWLL SFKRGSALEE	subsets, e.g., activated and CD8 cytotoxic T cells and
KENKILVKET GYFFIYGQVL	natural killer cells, in certain auto-immune and chronic
YTDKTYAMGH LIQRKKVHVF	inflammatory and infective diseases."
GDELSLVTLF RCIQNMPETL	p. 263:18-22
PNNSCYSAGI AKLEEGDELQ	
LAIPRENAQI SLDGDVTFFG	"A still further embodiment of the invention is related to
ALKLL	a method for treating an individual in need of a
	decreased level of Neutrokine-alpha and/or

New Claim	Support in 60/171,626
wherein B lymphocytes are inhibited.	Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 15:24-29
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 172:8-13
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 15:28-29. See also p. 342:5 - p. 345:2
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 288:14-17
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 16:1-2
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically

New Claim	Support in 60/171,626
	to a polypeptide of the invention."
	p. 83:30-32
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 296:30-32
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, Nature 256:495-497 (1975) and U.S. Patent No. 4,376,110; Harlow et al., Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; Monoclonal Antibodies and Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))." p. 297:3-10
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
wherein the antibody is recombinantly produced.	austrosure.
	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."  p. 188:16-19
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."

New Claim	Support in 60/171,626
	p. 242:18-27
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 296:30-32
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen."  p. 181:2-6
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above." p. 263:16-17
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 264:31-33
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV

New Claim	Support in 60/171,626
	polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 288:11-17
	"An <i>in vitro</i> cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and other immune-related diseases."  p. 58:30 - p. 59:8

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

## Support in 60/171,108

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 72:12-15

"The antagonists may be employed for instance to inhibit Neutrokine-alpha-mediated and/or Neutrokine-alphaSV-mediated chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases." p. 320:1-5

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 19:3-8

New Claim	Support in 60/171,108
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 209:14-19
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 19:7-8. See also p. 415:15 - p. 419:6
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 350:12-15
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 19:12-13
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 101:19-21
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."

New Claim	Support in 60/171,108
	p. 360:23-25
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, Nature 256:495-497 (1975) and U.S. Patent No. 4,376,110; Harlow et al., Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; Monoclonal Antibodies and Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))." p. 361:3-10
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."  p. 228:22-25
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 294:9-18
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant	See support for Claims 195 and 200

New Claim	Support in 60/171,108
domains.	
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:  "The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for
	example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 360:23-25
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen."  p. 219:18-22
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 319:26-27
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 321:20-22
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions."

assay for measuring t	
assay for measuring t	
and commonly availa replication and/or dea modulation activities assay are useful for tr	iferation, cytotoxicity and cell death the effect of a protein on certain ed by using reagents well known able in the art for detecting cell athSuch cell proliferation as can be measure in this type of reating tumor, tumor metastasis, and diseases, inflammation and diseases."

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

## Support in 60/168,624

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 62:20-23

"The antagonists may be employed for instance to inhibit Neutrokine-alpha-mediated and/or Neutrokine-alphaSV-mediated chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases." p. 215:28-32

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."

p. 16:4-9

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."

New Claim	Support in 60/168,624
	p. 126:30 – p. 127:3
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 16:8-9. See also p. 294:1 – p. 297:2  "An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV
	while antagonists decrease or eliminate such functions." p. 239:5-8
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 16:13-14
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 87:14-16
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 247:30-32
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, <i>Nature</i> 256:495-497 (1975) and U.S. Patent No. 4,376,110; Harlow et al., <i>Antibodies</i> : A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; <i>Monoclonal Antibodies and</i>

New Claim	Support in 60/168,624
	Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))." p. 248:4-11
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."  p. 147:19-22
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where <i>in vivo</i> imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne <i>et al.</i> , <i>Nature</i> 312:643 (1984); Neuberger <i>et al.</i> , <i>Nature</i> 314:268 (1985)."  p. 195:20-29
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."

New Claim	Support in 60/168,624
	p. 247:30-32
204. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is a polyclonal antibody.	disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen."  p. 139:27-31
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 215:26-27
·	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 217:10-12
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 239:2-8
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and

Support in 60/168,624	
other immune-related diseases." p. 61:18-29	
	other immune-related diseases."

I-24

New Claim	Support in 60/167,239
	similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 231:4-7
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 15:31-32
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
·	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 83:30-32
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 239:23-25
	"In a preferred method, antibodies according to the present invention are mAbs. Such mAbs can be prepared using hybridoma technology (Kohler and Millstein, Nature 256:495-497 (1975) and U.S. Patent No. 4,376,110; Harlow et al., Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1988; Monoclonal Antibodies and Hybridomas: A New Dimension in Biological Analyses, Plenum Press, New York, NY, 1980; Campbell, "Monoclonal Antibody Technology," In: Laboratory Techniques in Biochemistry and Molecular Biology, Volume 13 (Burdon et al., eds.), Elsevier, Amsterdam (1984))."  p. 239:29 – p. 240:3
199. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following

New Claim	Support in 60/167,239
wherein the antibody is recombinantly produced.	disclosure:
	"Methods of Producing Antibodies
	The antibodies of the invention can be produced by any method known in the art for the synthesis of antibodies, in particular, by chemical synthesis or preferably, by recombinant expression techniques."  p. 142:10-13
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where <i>in vivo</i> imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne <i>et al.</i> , <i>Nature</i> 312:643 (1984); Neuberger <i>et al.</i> , <i>Nature</i> 314:268 (1985)."  p. 188:26 – p. 189:2
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 239:23-25
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Polyclonal antibodies to an antigen-of-interest can be produced by various procedures well known in the art. For example, a polypeptide of the invention can be administered to various host animals including, but not

New Claim	Support in 60/167,239
	limited to, rabbits, mice, rats, etc. to induce the production of sera containing polyclonal antibodies specific for the antigen." p. 134:27-31
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above." p. 208:11-12
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 209:26-28
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 231:1-7
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or death Such cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and other immune-related diseases."  p. 58:28 - p. 59:6

New Claim	Support in 60/145,824
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.

### sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

## Support in 60/145,824

For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 56:25-28

"The antagonists may be employed for instance to inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 162:18-22

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."

p. 16:4-9

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."
p. 116:21-26

"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 16:8-9

"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 178:28-31

"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 16:13-14

New Claim	Support in 60/145,824
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 76:15-17
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 187:24-26
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 123:11-17
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 124:21-22
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be

New Claim	Support in 60/145,824
	preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., <i>Nature</i> 312:643 (1984); Neuberger et al., <i>Nature</i> 314:268 (1985)."  p. 145:32 – p. 146:9
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
·	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 187:24-26
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 123:4-6
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 162:16-17
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically

New Claim	Support in 60/145,824
	acceptable carrier, e.g., as described hereinafter." p. 163:26-28
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 178:25-31
·	"An <i>in vitro</i> cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases, inflammation and other immune-related diseases."  p. 55:22 – p. 56:2

New Claim	Support in 60/142,659
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-alpha is active in directing
•	the proliferation, differentiation and migration of these
MDDSTEREQS RLTSCLKKRE	cell types."
EMKLKECVSI LPRKESPSVR	p. 56:25-28
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the
GLEEAPAVTA GLKIFEPPAP	chemotaxis and activation of macrophages and their
GEGNSSQNSR NKRAVQGPEE	precursors, and of neutrophils, basophils, B lymphocytes
TVTQDCLQLI ADSETPTIQK	and some T-cell subsets, e.g., activated and CD8
GSYTFVPWLL SFKRGSALEE	cytotoxic T cells and natural killer cells, in certain
KENKILVKET GYFFIYGQVL	auto-immune and chronic inflammatory and infective
YTDKTYAMGH LIQRKKVHVF	diseases."
GDELSLVTLF RCIQNMPETL	p. 160:28-32
PNNSCYSAGI AKLEEGDELQ	[
LAIPRENAQI SLDGDVTFFG	"A still further embodiment of the invention is related to
ALKLL	a method for treating an individual in need of a
	decreased level of Neutrokine-alpha and/or

New Claim	Support in 60/142,659
wherein B lymphocytes are inhibited.	Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 16:4-9
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 116:21-26
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 16:8-9
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 176:23-26
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 16:13-14
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically

New Claim	Support in 60/142,659
	to a polypeptide of the invention." p. 76:15-17
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 185:15-17
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alpha SV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 123:11-17
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 124:21-22
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where <i>in vivo</i> imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use human antibodies or "humanized" chimeric monoclonal antibodies. Such antibodies can be produced using techniques described herein or otherwise known in the art. For example methods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne <i>et al.</i> , <i>Nature</i> 312:643 (1984); Neuberger <i>et al.</i> , <i>Nature</i> 314:268 (1985)."  p. 145:32 – p. 146:9
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200

New Claim	Support in 60/142,659
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 185:15-17
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 123:4-6
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 160:26-27
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter." p. 162:5-7
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions."

New Claim	Support in 60/142,659
	p. 176:20-26
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 55:22 - p. 56:2

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

# Support in 60/136,784

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 47:27-30

"The antagonists may be employed for instance to inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 121:25-29

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p 13:15-20

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."

New Claim	Support in 60/136,784
	p. 95:18-23
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:19-20
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 131:15-18
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 13:24-25
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 62:37 - p. 63:2
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 138:24-26
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et

New Claim	Support in 60/136,784
	al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 100:28-34
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 101:30-31
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."  p. 116:20-29
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 138:24-26
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing

New Claim	Support in 60/136,784
	polyclonal antibodies." p. 100:21-23
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 121:23-24
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 122:25-27
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 131:12-18
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 46:32 – p. 47:5

New Claim	Support in 60/131,673
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-alpha is active in directing
•	the proliferation, differentiation and migration of these

New Claim	Support in 60/131,673
	cell types."
MDDSTEREQS RLTSCLKKRE EMKLKECVSI LPRKESPSVR	p. 47:27-30
	p. 47.27-30
SSKDGKLLAA TLLLALLSCC	WThe enterprise may be smallered for instance to
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the
GLEEAPAVTA GLKIFEPPAP	chemotaxis and activation of macrophages and their
GEGNSSQNSR NKRAVQGPEE	precursors, and of neutrophils, basophils, B lymphocytes
TVTQDCLQLI ADSETPTIQK	and some T-cell subsets, e.g., activated and CD8
GSYTFVPWLL SFKRGSALEE	cytotoxic T cells and natural killer cells, in certain
KENKILVKET GYFFIYGQVL	auto-immune and chronic inflammatory and infective
YTDKTYAMGH LIQRKKVHVF	diseases."
GDELSLVTLF RCIQNMPETL	p. 117:15-19
PNNSCYSAGI AKLEEGDELQ	
LAIPRENAQI SLDGDVTFFG	"A still further embodiment of the invention is related to
ALKLL	a method for treating an individual in need of a
	decreased level of Neutrokine-alpha and/or
wherein B lymphocytes are inhibited.	Neutrokine-alphaSV activity in the body comprising,
	administering to such an individual a composition
	comprising a therapeutically effective amount of an
	Neutrokine-alpha and/or Neutrokine-alphaSV
	antagonist. Preferred antagonists for use in the present
•	
	invention are Neutrokine-alpha-specific and/or
	Neutrokine-alphaSV-specific antibodies."
	p 13:9-14
	"Additionally, as described in detail below, the
	polypeptides of the present invention can also be used to
	raise polyclonal and monoclonal antibodies, which are
	useful in assays for detecting Neutrokine-alpha and/or
	Neutrokine-alphaSV polypeptide expression as
	described below or as agonists and antagonists capable
	of enhancing or inhibiting Neutrokine-alpha and/or
	Neutrokine-alphaSV function."
	p. 92:20-25
	"Preferred antagonists for use in the present invention
	are Neutrokine-alpha-specific and/or
	Neutrokine-alphaSV-specific antibodies."
	p. 13:13-14
	p. 15.15-17
	"An agonist is a compound which increases the natural
	biological functions of Neutrokine-alpha and/or
	Neutrokine-alphaSV or which functions in a manner
	similar to Neutrokine-alpha and/or Neutrokine-alphaSV
	while antagonists decrease or eliminate such functions."
	p. 127:5-8
	p. 127.5-0
	"Figures 1A and 1B shows the nucleotide (SEQ ID
	NO:1) and deduced amino acid (SEQ ID NO:2)
	sequences of Neutrokine-alpha."
	p. 13:18-19
100 4 4 1 1 0 1 1 1 1 1 1 1	Source of the Claim 105
196. A method of inhibiting B lymphocyte	See support for Claim 195
proliferation comprising administering an effective	

New Claim	Support in 60/131,673
amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 62:29-32
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 134:13-15
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 97:30-36
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 98:32-33
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies

New Claim	Support in 60/131,673
	are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 112:18-27
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 134:13-15
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 97:23-25
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 117:13-14
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 118:15-17
207. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following

New Claim	Support in 60/131,673
wherein the antibody is administered to a cell culture.	disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 127:2-8
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 46:32 – p. 47:5

New Claim	Support in 60/131,278
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-alpha is active in directing
	the proliferation, differentiation and migration of these
MDDSTEREQS RLTSCLKKRE	cell types."
EMKLKECVSI LPRKESPSVR	p. 47:27-30
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the
GLEEAPAVTA GLKIFEPPAP	chemotaxis and activation of macrophages and their
GEGNSSQNSR NKRAVQGPEE	precursors, and of neutrophils, basophils, B lymphocytes
TVTQDCLQLI ADSETPTIQK	and some T-cell subsets, e.g., activated and CD8
GSYTFVPWLL SFKRGSALEE	cytotoxic T cells and natural killer cells, in certain
KENKILVKET GYFFIYGQVL	auto-immune and chronic inflammatory and infective
YTDKTYAMGH LIQRKKVHVF	diseases."
GDELSLVTLF RCIQNMPETL	p. 117:15-19
PNNSCYSAGI AKLEEGDELQ	
LAIPRENAQI SLDGDVTFFG	"A still further embodiment of the invention is related to
ALKLL	a method for treating an individual in need of a
	decreased level of Neutrokine-alpha and/or
wherein B lymphocytes are inhibited.	Neutrokine-alphaSV activity in the body comprising,
	administering to such an individual a composition
	comprising a therapeutically effective amount of an
	Neutrokine-alpha and/or Neutrokine-alphaSV

New Claim	Support in 60/131,278
	antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p 13:9-14
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 92:20-25
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:13-14
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 127:5-8
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 13:18-19
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 62:29-32
	"The term "antibody" (Ab) or "monoclonal antibody"

New Claim	Support in 60/131,278
· ·	(mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen." p. 134:13-15
·	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 97:30-36
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 98:32-33
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 112:17-26
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody"

New Claim	Support in 60/131,278
	(mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen." p. 134:13-15
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 97:23-25
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above." p. 117:13-14
·	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 118:15-17
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 127:2-8
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of

New Claim	Support in 60/131,278
	assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 46:32 - p. 47:5

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

## Support in 60/130,696

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 47:27-30

"The antagonists may be employed for instance to inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 117:11-15

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."

p. 13:9-14

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."

p. 92:20-25

"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:13-14

"An agonist is a compound which increases the natural

New Claim	Support in 60/130,696
	biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 125:30-33
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 13:18-19
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 62:29-32
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 133:3-5
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 97:30-36
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:

New Claim	Support in 60/130,696
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 98:32-33
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 112:14-23
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 133:3-5
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 97:23-25
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following

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New Claim	Support in 60/130,696
wherein the antibody is administered to an individual.	disclosure:
·	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 117:9-10
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter." p. 118:11-13
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 125:27-33
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 46:32 – p. 47:5

New Claim	Support in 60/130,412
195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:	"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these
MDDSTEREQS RLTSCLKKRE	cell types."
EMKLKECVSI LPRKESPSVR	p. 47:24-27
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the
GLEEAPAVTA GLKIFEPPAP	chemotaxis and activation of macrophages and their
GEGNSSQNSR NKRAVQGPEE	precursors, and of neutrophils, basophils, B lymphocytes

New Claim	Support in 60/130,412
TVTQDCLQLI ADSETPTIQK	and some T-cell subsets, e.g., activated and CD8
GSYTFVPWLL SFKRGSALEE	cytotoxic T cells and natural killer cells, in certain
KENKILVKET GYFFIYGQVL	auto-immune and chronic inflammatory and infective
YTDKTYAMGH LIQRKKVHVF	diseases."
GDELSLVTLF RCIQNMPETL	p. 115:37 – p. 116:3
PNNSCYSAGI AKLEEGDELQ	
LAIPRENAQI SLDGDVTFFG	"A still further embodiment of the invention is related to
ALKLL	a method for treating an individual in need of a
wherein B lymphocytes are inhibited.	decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:9-14
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 91:14-19
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:13-14
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 124:16-19
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 13:18-19
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha	See support for Claim 195

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New Claim	Support in 60/130,412
(SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 62:27-30
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 131:27-29
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 96:23-29
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 97:25-26
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."

New Claim	Support in 60/130,412
	p. 111:4-13
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 131:27-29
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 96:16-18
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 115:35-36
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 116:37 - p. 117:2
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a

New Claim	Support in 60/130,412
	compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 124:13-19  "An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases." p. 46:29 – p. 47:2

No	w	C	im

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

# Support in 60/127,598

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 47:23-26

"The antagonists may be employed for instance to inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 115:11-15

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:14-20

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are

New Claim	Support in 60/127,598
	useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 91:24-29
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 13:18-20
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 123:17-20
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 13:24-25
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 62:29-31
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 130:27-29
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or

New Claim	Support in 60/127,598
	Neutrokine-alpha and/or Neutrokine-alphaSV
	polypeptide binding fragments thereof). Such
	monoclonal antibodies can be prepared using hybridoma
	technology (Köhler et al., Nature 256:495 (1975);
	Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et
	al., Eur. J. Immunol. 6:292 (1976); Hammerling et al.,
	in: Monoclonal Antibodies and T-Cell Hybridomas,
	Elsevier, N.Y., (1981) pp. 563-681)."
	p. 96:37 – p. 97:4
199. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is recombinantly produced.	disclosure:
•	"Alternatively, antibodies of the present invention can
	be produced through the application of recombinant
	DNA technology"
	p. 98:1-2
222	
200. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is a chimeric antibody.	disclosure:
•	"Where in vivo imaging is used to detect enhanced levels
	of Neutrokine-alpha and/or Neutrokine-alphaSV
	polypeptide for diagnosis in humans, it may be
	preferable to use "humanized" chimeric monoclonal
	antibodiesMethods for producing chimeric antibodies
	are known in the art. See, for review, Morrison, Science
	229:1202 (1985); Oi et al., BioTechniques 4:214 (1986);
	Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et
	al., EP 171496; Morrison et al., EP 173494; Neuberger
	et al., WO 8601533; Robinson et al., WO 8702671;
	Boulianne et al., Nature 312:643 (1984); Neuberger et
	al., Nature 314:268 (1985)."
	p. 110:30-39
201. The method of any one of claims 195-197,	See support for Claims 195 and 200
wherein the antibody is a humanized antibody.	
202. The method of any one of claims 195-197,	See support for Claims 195 and 200
wherein the antibody comprises human constant	
domains.	· ·
203. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is a F(ab') <sub>2</sub> fragment.	disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody"
	(mAb) as used herein is meant to include intact
	molecules as well as fragments thereof (such as, for
	example, Fab and F(ab') fragments) which are capable of
	binding an antigen."
	p. 130:27-29
204. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following

New Claim	Support in 60/127,598
wherein the antibody is a polyclonal antibody.	disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 96:30-32
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 115:9-10
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter." p. 116:12-14
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 123:13-20
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 46:27-38

Application No.: 09/589,288

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

## Support in 60/126,599

"Like other members of TNF family, Neutrokine-alpha exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-alpha is active in directing the proliferation, differentiation and migration of these cell types."

p. 50:7-10

"The antagonists may be employed for instance to inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 121:11-15

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-alpha and/or Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."
p. 14:3-9

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."
p. 96:17-22

"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies." p. 14:7-9

"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 128:15-18

"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2)

New Claim	Support in 60/126,599
	sequences of Neutrokine-alpha." p. 14:13-14
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
·	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 66:6-8
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 135:34-36
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 102:1-7
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 103:6-7
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:

New Claim	Support in 60/126,599
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."  p. 116:22-31
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:  "The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 135:34-36
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:  "cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 101:31-33
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:  "The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 121:9-10  "The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically

New Claim	Support in 60/126,599
	acceptable carrier, e.g., as described hereinafter."
	p. 122:14-16
207. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is administered to a cell culture.	disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 128:11-18  "An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases." p. 49:10-21

New Claim	Support in 60/124,097
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-alpha
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-alpha is active in directing
-	the proliferation, differentiation and migration of these
MDDSTEREQS RLTSCLKKRE	cell types."
EMKLKECVSI LPRKESPSVR	p. 50:7-10
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-alpha and/or Neutrokine-alphaSV the
GLEEAPAVTA GLKIFEPPAP	chemotaxis and activation of macrophages and their
GEGNSSQNSR NKRAVQGPEE	precursors, and of neutrophils, basophils, B lymphocytes
TVTQDCLQLI ADSETPTIQK	and some T-cell subsets, e.g., activated and CD8
GSYTFVPWLL SFKRGSALEE	cytotoxic T cells and natural killer cells, in certain
KENKILVKET GYFFIYGQVL	auto-immune and chronic inflammatory and infective
YTDKTYAMGH LIQRKKVHVF	diseases."
GDELSLVTLF RCIQNMPETL	p. 114:3-7
PNNSCYSAGI AKLEEGDELQ	
LAIPRENAQI SLDGDVTFFG	"A still further embodiment of the invention is related to
ALKLL	a method for treating an individual in need of a
	decreased level of Neutrokine-alpha and/or

New Claim	Support in 60/124,097
wherein B lymphocytes are inhibited.	Neutrokine-alphaSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-alpha and/or Neutrokine-alphaSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 14:1-7
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-alpha and/or Neutrokine-alphaSV function."  p. 96:19-24
	"Preferred antagonists for use in the present invention are Neutrokine-alpha-specific and/or Neutrokine-alphaSV-specific antibodies."  p. 14:5-7
	"An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 121:6-9
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-alpha." p. 14:11-12
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically

New Claim	Support in 60/124,097
Tion Olding	to a polypeptide of the invention."
	p. 66:6-8
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 128:23-25
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)." p. 102:3-9
199. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is recombinantly produced.	disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 103:8-9
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 109:15-24
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200

New Claim	Support in 60/124,097
203. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is a F(ab') <sub>2</sub> fragment.	disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 128:23-25
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies." p. 101:33-35
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 114:1-2
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 115:6-8
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-alpha and/or Neutrokine-alphaSV polypeptide on cells, such as its interaction with Neutrokine-alpha and/or Neutrokine-alphaSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-alpha and/or Neutrokine-alphaSV or which functions in a manner similar to Neutrokine-alpha and/or Neutrokine-alphaSV while antagonists decrease or eliminate such functions." p. 121:2-9
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain

New Claim	Support in 60/124,097
	cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 49:10-21

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

### Support in 60/122,388

"Like other members of TNF family, Neutrokine-a exhibits activity on leukocytes including, for example, monocytes, lymphocytes (e.g., B cells) and neutrophils. For this reason Neutrokine-a is active in directing the proliferation, differentiation and migration of these cell types."

p. 48:18-21

"The antagonists may be employed for instance to inhibit Neutrokine-α and/or Neutrokine-αSV the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 113:32-36

"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-a and/or Neutrokine-aSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-a and/or Neutrokine-aSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-a-specific and/or Neutrokine-aSV-specific antibodies."

p. 14:10-16

"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-α and/or Neutrokine-aSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-α and/or Neutrokine-aSV function."
p. 95:31-36

"Preferred antagonists for use in the present invention are Neutrokine-a-specific and/or Neutrokine-aSV-specific antibodies."

New Claim	Support in 60/122,388
	p. 14:14-16
	"An agonist is a compound which increases the natural biological functions of Neutrokine-α and/or Neutrokine-αSV or which functions in a manner similar to Neutrokine-α and/or Neutrokine-αSV while antagonists decrease or eliminate such functions." p. 120:9-13
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-a."  p. 14:21-22
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 64:25-28
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 127:32-35
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-α and/or Neutrokine-aSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681). "p. 101:19-25
199. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following

New Claim	Support in 60/122,388
wherein the antibody is recombinantly produced.	disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 102:24-25
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where <i>in vivo</i> imaging is used to detect enhanced levels of Neutrokine-α and/or Neutrokine-αSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne <i>et al.</i> , <i>Nature</i> 312:643 (1984); Neuberger <i>et al.</i> , <i>Nature</i> 314:268 (1985)."  p. 108:38 – p. 109:9
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 127:32-35
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-α and/or Neutrokine-aSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 101:12-15
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203

New Claim	Support in 60/122,388
206. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is administered to an individual.	disclosure:
	"The agonists and antagonists may be employed in a
	composition with a pharmaceutically acceptable carrier,
	e.g., as described above."
·	p. 113:30-31
	"The antagonists and antagonists of the instant may be
	employed in a composition with a pharmaceutically
	acceptable carrier, e.g., as described hereinafter."
	p. 114:35-37
207. The mosth of of one one of claims 105, 107	See support for Claim 195 and in addition the following
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-α and/or Neutrokine-aSV
	polypeptide on cells, such as its interaction with Neutrokine-α and/or Neutrokine-aSV binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-α and/or Neutrokine-αSV or which functions in a manner similar to Neutrokine-α and/or Neutrokine-αSV while antagonists decrease or eliminate such functions."  p. 120:6-13
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 47:21-33

New Claim	Support in 09/255,794
195. A method of inhibiting B lymphocytes	"Like other members of TNF family, Neutrokine-a
comprising administering an effective amount of an	exhibits activity on leukocytes including, for example,
antibody that binds a protein whose amino acid	monocytes, lymphocytes (e.g., B cells) and neutrophils.
sequence is:	For this reason Neutrokine-a is active in directing the
	proliferation, differentiation and migration of these cell
MDDSTEREQS RLTSCLKKRE	types."
EMKLKECVSI LPRKESPSVR	p. 48:18-21
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine-α and/or Neutrokine-αSV the
GLEEAPAVTA GLKIFEPPAP	chemotaxis and activation of macrophages and their

New Claim	Support in 09/255,794
GEGNSSQNSR NKRAVQGPEE TVTQDCLQLI ADSETPTIQK GSYTFVPWLL SFKRGSALEE KENKILVKET GYFFIYGQVL YTDKTYAMGH LIQRKKVHVF GDELSLVTLF RCIQNMPETL PNNSCYSAGI AKLEEGDELQ	precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."  p. 114:14-18
LAIPRENAQI SLDGDVTFFG ALKLL wherein B lymphocytes are inhibited.	"A still further embodiment of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine-a and/or Neutrokine-aSV activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine-a and/or Neutrokine-aSV antagonist. Preferred antagonists for use in the present invention are Neutrokine-a-specific and/or Neutrokine-aSV-specific antibodies."  p. 14:12-18
	"Additionally, as described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-α and/or Neutrokine-aSV polypeptide expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-α and/or Neutrokine-aSV function."  p. 95:31-36
	"Preferred antagonists for use in the present invention are Neutrokine-a-specific and/or Neutrokine-aSV-specific antibodies." p. 14:16-18
	"An agonist is a compound which increases the natural biological functions of Neutrokine-α and/or Neutrokine-αSV or which functions in a manner similar to Neutrokine-α and/or Neutrokine-αSV while antagonists decrease or eliminate such functions." p. 119:5-9
	"Figures 1A and 1B shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of Neutrokine-a."  p. 14:23-24
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha	See support for Claim 195

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New Claim	Support in 09/255,794
(SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 64:25-28
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 126:38 – 127:3
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-α and/or Neutrokine-aSV polypeptide binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)."  p. 101:19-25
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, antibodies of the present invention can be produced through the application of recombinant DNA technology" p. 102:24-25
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine-α and/or Neutrokine-αSV polypeptide for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."

New Claim	Support in 09/255,794
	p. 109:10-20
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"The term "antibody" (Ab) or "monoclonal antibody" (mAb) as used herein is meant to include intact molecules as well as fragments thereof (such as, for example, Fab and F(ab') fragments) which are capable of binding an antigen."  p. 126:38 – 127:3
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine-\alpha and/or Neutrokine-aSV polypeptide or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 101:12-15
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 114:12-13
	"The antagonists and antagonists of the instant may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described hereinafter."  p. 115:16-18
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-α and/or Neutrokine-aSV polypeptide on cells, such as its interaction with Neutrokine-α and/or Neutrokine-aSV binding molecules such as receptor molecules. An agonist is a compound

New Claim	Support in 09/255,794
	which increases the natural biological functions of Neutrokine-α and/or Neutrokine-αSV or which functions in a manner similar to Neutrokine-α and/or Neutrokine-αSV while antagonists decrease or eliminate such functions."  p. 119:2-9
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 47:21-33

195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

MDDSTEREQS RLTSCLKKRE
EMKLKECVSI LPRKESPSVR
SSKDGKLLAA TLLLALLSCC
LTVVSFYQVA ALQGDLASLR
AELQGHHAEK LPAGAGAPKA
GLEEAPAVTA GLKIFEPPAP
GEGNSSQNSR NKRAVQGPEE
TVTQDCLQLI ADSETPTIQK
GSYTFVPWLL SFKRGSALEE
KENKILVKET GYFFIYGQVL
YTDKTYAMGH LIQRKKVHVF
GDELSLVTLF RCIQNMPETL
PNNSCYSAGI AKLEEGDELQ
LAIPRENAQI SLDGDVTFFG
ALKLL

wherein B lymphocytes are inhibited.

#### Support in 09/005,874

"Like other members of TNF family, Neutrokine- $\alpha$  exhibits activity on leukocytes including for example monocytes, lymphocytes and neutrophils. For this reason Neutrokine- $\alpha$  is active in directing the proliferation, differentiation and migration of these cell types."

p. 27:10-13

"The antagonists may be employed for instance to inhibit Neutrokine- $\alpha$  the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 60:20-24

"A still further aspect of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine- $\alpha$  activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine- $\alpha$  antagonist. Preferred antagonists for use in the present invention are Neutrokine- $\alpha$ -specific antibodies."

p. 14:6-11

"As described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine-α protein expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine-α protein

New Claim	Support in 09/005,874
	function."
	p. 42:14-18
	"Preferred antagonists for use in the present invention are Neutrokine-α-specific antibodies." p. 14:9-11
	"An agonist is a compound which increases the natural biological functions of Neutrokine-α or which functions in a manner similar to Neutrokine while antagonists decrease or eliminate such functions."  p. 58:7-9
	"FIG. 1 shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of the Neutrokine-α protein."  p. 14:13-14
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
·	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 43:17-19
	"As used herein, the term "antibody" (Ab) or "monoclonal antibody" (Mab) is meant to include intact molecules as well as antibody fragments (such as, for example, Fab and F(ab')2 fragments) which are capable of specifically binding to Neutrokine-α protein." p. 49:27 – p. 50:2
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine-α protein binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas,

Support in 09/005,874
Elsevier, N.Y., (1981) pp. 563-681)."
p. 50:14-20
See support for Claim 195 and in addition the following disclosure:
"Alternatively, Neutrokine-α protein-binding fragments can be produced through the application of recombinant DNA technology"  p. 51:26-28
See support for Claim 195 and in addition the following disclosure:
"Where <i>in vivo</i> imaging is used to detect enhanced levels of Neutrokine-α protein for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, <i>Science</i> 229:1202 (1985); Oi et al., <i>BioTechniques</i> 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne <i>et al.</i> , <i>Nature</i> 312:643 (1984); Neuberger <i>et al.</i> , <i>Nature</i> 314:268 (1985)."  p. 52:1-10
See support for Claims 195 and 200
See support for Claims 195 and 200
See support for Claim 195 and in addition the following disclosure:
"As used herein, the term "antibody" (Ab) or "monoclonal antibody" (Mab) is meant to include intact molecules as well as antibody fragments (such as, for example, Fab and F(ab')2 fragments) which are capable of specifically binding to Neutrokine-α protein." p. 49:27 – p. 50:2
See support for Claim 195 and in addition the following disclosure:
"cells expressing the Neutrokine-\alpha protein or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 50:7-9

New Claim	Support in 09/005,874
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 60:18-19
	"The antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as hereinafter described."  p. 62:3-5
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine-α on cells, such as its interaction with Neutrokine-α binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine-α or which functions in a manner similar to Neutrokine while antagonists decrease or eliminate such functions."  p. 58:4-9
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 26:14-27

New Claim	Support in 60/036,100
195. A method of inhibiting B lymphocytes comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:	"Like other members of TNF family, Neutrokine α exhibits activity on leukocytes including for example monocytes, lymphocytes and neutrophils. For this reason Neutrokine α is active in directing the proliferation, differentiation and migration of these cell
MDDSTEREQS RLTSCLKKRE	types."
EMKLKECVSI LPRKESPSVR	p. 25:19-22
SSKDGKLLAA TLLLALLSCC	
LTVVSFYQVA ALQGDLASLR	"The antagonists may be employed for instance to
AELQGHHAEK LPAGAGAPKA	inhibit Neutrokine α the chemotaxis and activation of
GLEEAPAVTA GLKIFEPPAP	macrophages and their precursors, and of neutrophils,

New Claim	Support in 60/036,100
GEGNSSQNSR NKRAVQGPEE	basophils, B lymphocytes and some T-cell subsets, e.g.,
TVTQDCLQLI ADSETPTIQK	activated and CD8 cytotoxic T cells and natural killer
GSYTFVPWLL SFKRGSALEE	cells, in certain auto-immune and chronic inflammatory
KENKILVKET GYFFIYGQVL	and infective diseases."
YTDKTYAMGH LIQRKKVHVF	p. 57:13-17
GDELSLVTLF RCIQNMPETL	
PNNSCYSAGI AKLEEGDELQ	"A still further aspect of the invention is related to a
LAIPRENAQI SLDGDVTFFG	method for treating an individual in need of a decreased
ALKLL	level of Neutrokine a activity in the body comprising,
	administering to such an individual a composition
wherein B lymphocytes are inhibited.	comprising a therapeutically effective amount of an
, and the same of	Neutrokine α antagonist. Preferred antagonists for use
	in the present invention are Neutrokine α-specific
	antibodies."
	p. 13:13-18
	p. 13.13-10
	"As described in detail below, the polypeptides of the
	present invention can also be used to raise polyclonal
	and monoclonal antibodies, which are useful in assays
	for detecting Neutrokine a protein expression as
	described below or as agonists and antagonists capable
·	of enhancing or inhibiting Neutrokine α protein
	function."
	p. 39:13-17
	p. 39.13-17
	"Preferred antagonists for use in the present invention
	are Neutrokine α-specific antibodies."
	p. 13:16-18
	p. 13.10-18
	"An agonist is a compound which increases the natural
	biological functions of Neutrokine $\alpha$ or which functions
	in a manner similar to Neutrokine while antagonists
	decrease or eliminate such functions."
	p. 54:27 – p. 55:2
	(SEIC 1 shows the musl-stide (SEO ID NO.1) and
	"FIG. 1 shows the nucleotide (SEQ ID NO:1) and
	deduced amino acid (SEQ ID NO:2) sequences of the
	Neutrokine α protein." p. 13:20-21
	p. 13.20-21
196. A method of inhibiting B lymphocyte	See support for Claim 195
proliferation comprising administering an effective	See support for Chain 193
amount of an antibody that binds Neutrokine-alpha	
(SEQ ID NO:2), wherein B lymphocyte proliferation	
is inhibited.	
is minored.	
197. A method of inhibiting B lymphocyte	See support for Claim 195
differentiation comprising administering an effective	See support joi Sianii 175
amount of an antibody that binds Neutrokine-alpha	
(SEQ ID NO:2), wherein B lymphocyte	
differentiation is inhibited.	
differentiation is initioted.	
198. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
	1 11 11 11 11 11 11 11 11 11 11 11 11 1

New Claim	Support in 60/036,100
wherein the antibody is a monoclonal antibody.	disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 40:15-17
	"As used herein, the term "antibody" (Ab) or "monoclonal antibody" (Mab) is meant to include intact molecules as well as antibody fragments (such as, for example, Fab and F(ab')2 fragments) which are capable of specifically binding to Neutrokine α protein." p. 46:23-26
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine α protein binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)."  p. 47:9-15
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, Neutrokine α protein-binding fragments can be produced through the application of recombinant DNA technology" p. 48:21-23
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine α protein for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)." p. 48:24 – p. 49:4
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200

New Claim	Support in 60/036,100
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"As used herein, the term "antibody" (Ab) or "monoclonal antibody" (Mab) is meant to include intact molecules as well as antibody fragments (such as, for example, Fab and F(ab')2 fragments) which are capable of specifically binding to Neutrokine α protein." p. 46:23-26
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine α protein or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 47:2-4
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."  p. 57:11-12
	"The antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as hereinafter described."  p. 58:24-26
207. The method of any one of claims 195-197, wherein the antibody is administered to a cell culture.	See support for Claim 195 and in addition the following disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine $\alpha$ on cells, such as its interaction with Neutrokine $\alpha$ binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine $\alpha$ or which functions in a manner similar to Neutrokine while antagonists decrease or eliminate such functions." $p. 54:24-p. 55:2$
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain

New Claim	Support in 60/036,100
	cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or deathSuch cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 24:23 – 25:7

A method of inhibiting B lymphocytes 195. comprising administering an effective amount of an antibody that binds a protein whose amino acid sequence is:

> MDDSTEREQS RLTSCLKKRE EMKLKECVSI LPRKESPSVR SSKDGKLLAA TLLLALLSCC LTVVSFYQVA ALQGDLASLR AELQGHHAEK LPAGAGAPKA GLEEAPAVTA GLKIFEPPAP GEGNSSQNSR NKRAVQGPEE TVTQDCLQLI ADSETPTIQK GSYTFVPWLL SFKRGSALEE KENKILVKET GYFFIYGQVL YTDKTYAMGH LIQRKKVHVF GDELSLVTLF RCIQNMPETL PNNSCYSAGI AKLEEGDELQ LAIPRENAOI SLDGDVTFFG ALKLL

wherein B lymphocytes are inhibited.

# Support in PCT/US96/17957

"Like other members of TNF family, Neutrokine a exhibits activity on leukocytes including for example monocytes, lymphocytes and neutrophils. For this reason Neutrokine a is active in directing the proliferation, differentiation and migration of these cell types."

p. 25:7-10

"The antagonists may be employed for instance to inhibit Neutrokine a the chemotaxis and activation of macrophages and their precursors, and of neutrophils, basophils, B lymphocytes and some T-cell subsets, e.g., activated and CD8 cytotoxic T cells and natural killer cells, in certain auto-immune and chronic inflammatory and infective diseases."

p. 56:15-17

"A still further aspect of the invention is related to a method for treating an individual in need of a decreased level of Neutrokine α activity in the body comprising, administering to such an individual a composition comprising a therapeutically effective amount of an Neutrokine α antagonist. Preferred antagonists for use in the present invention are Neutrokine α-specific antibodies."

p. 13:8-13

"As described in detail below, the polypeptides of the present invention can also be used to raise polyclonal and monoclonal antibodies, which are useful in assays for detecting Neutrokine α protein expression as described below or as agonists and antagonists capable of enhancing or inhibiting Neutrokine α protein function."

p. 38:28 - p. 39:2

"Preferred antagonists for use in the present invention are Neutrokine α-specific antibodies."

p. 13:11-13

"An agonist is a compound which increases the natural biological functions of Neutrokine a or which functions

New Claim	Support in PCT/US96/17957
	in a manner similar to Neutrokine while antagonists decrease or eliminate such functions." p. 54:5-7
	"FIG. 1 shows the nucleotide (SEQ ID NO:1) and deduced amino acid (SEQ ID NO:2) sequences of the Neutrokine α protein." p. 13:15-16
196. A method of inhibiting B lymphocyte proliferation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte proliferation is inhibited.	See support for Claim 195
197. A method of inhibiting B lymphocyte differentiation comprising administering an effective amount of an antibody that binds Neutrokine-alpha (SEQ ID NO:2), wherein B lymphocyte differentiation is inhibited.	See support for Claim 195
198. The method of any one of claims 195-197, wherein the antibody is a monoclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"Antigenic epitope-bearing peptides and polypeptides of the invention are therefore useful to raise antibodies, including monoclonal antibodies, that bind specifically to a polypeptide of the invention."  p. 39:29-40:1
	"As used herein, the term "antibody" (Ab) or "monoclonal antibody" (Mab) is meant to include intact molecules as well as antibody fragments (such as, for example, Fab and F(ab')2 fragments) which are capable of specifically binding to Neutrokine α protein." p. 46:3-6
	"In the most preferred method, the antibodies of the present invention are monoclonal antibodies (or Neutrokine α protein binding fragments thereof). Such monoclonal antibodies can be prepared using hybridoma technology. (Köhler et al., Nature 256:495 (1975); Köhler et al., Eur. J. Immunol. 6:511 (1976); Köhler et al., Eur. J. Immunol. 6:292 (1976); Hammerling et al., in: Monoclonal Antibodies and T-Cell Hybridomas, Elsevier, N.Y., (1981) pp. 563-681)."  p. 46:18-24
199. The method of any one of claims 195-197, wherein the antibody is recombinantly produced.	See support for Claim 195 and in addition the following disclosure:
	"Alternatively, Neutrokine α protein-binding fragments can be produced through the application of recombinant DNA technology"

New Claim	Support in PCT/US96/17957
	p. 47:29-48:2
200. The method of any one of claims 195-197, wherein the antibody is a chimeric antibody.	See support for Claim 195 and in addition the following disclosure:
	"Where in vivo imaging is used to detect enhanced levels of Neutrokine α protein for diagnosis in humans, it may be preferable to use "humanized" chimeric monoclonal antibodiesMethods for producing chimeric antibodies are known in the art. See, for review, Morrison, Science 229:1202 (1985); Oi et al., BioTechniques 4:214 (1986); Cabilly et al., U.S. Patent No. 4,816,567; Taniguchi et al., EP 171496; Morrison et al., EP 173494; Neuberger et al., WO 8601533; Robinson et al., WO 8702671; Boulianne et al., Nature 312:643 (1984); Neuberger et al., Nature 314:268 (1985)."  p. 48:3-12
201. The method of any one of claims 195-197, wherein the antibody is a humanized antibody.	See support for Claims 195 and 200
202. The method of any one of claims 195-197, wherein the antibody comprises human constant domains.	See support for Claims 195 and 200
203. The method of any one of claims 195-197, wherein the antibody is a F(ab') <sub>2</sub> fragment.	See support for Claim 195 and in addition the following disclosure:
	"As used herein, the term "antibody" (Ab) or "monoclonal antibody" (Mab) is meant to include intact molecules as well as antibody fragments (such as, for example, Fab and F(ab')2 fragments) which are capable of specifically binding to Neutrokine α protein." p. 46:3-6
204. The method of any one of claims 195-197, wherein the antibody is a polyclonal antibody.	See support for Claim 195 and in addition the following disclosure:
	"cells expressing the Neutrokine α protein or an antigenic fragment thereof can be administered to an animal in order to induce the production of sera containing polyclonal antibodies."  p. 46:11-13
205. The method of any one of claims 195-197, wherein the antibody is a Fab fragment.	See support for Claims 195 and 203
206. The method of any one of claims 195-197, wherein the antibody is administered to an individual.	See support for Claim 195 and in addition the following disclosure:
	"The agonists and antagonists may be employed in a composition with a pharmaceutically acceptable carrier, e.g., as described above."

New Claim	Support in PCT/US96/17957
	p. 56:13-14
	"The antagonists may be employed in a composition
•	with a pharmaceutically acceptable carrier, e.g., as
	hereinafter described."
	p. 57:26-28
207. The method of any one of claims 195-197,	See support for Claim 195 and in addition the following
wherein the antibody is administered to a cell culture.	disclosure:
	"The invention also provides a method of screening compounds to identify those which enhance or block the action of Neutrokine α on cells, such as its interaction with Neutrokine α binding molecules such as receptor molecules. An agonist is a compound which increases the natural biological functions of Neutrokine α or which functions in a manner similar to Neutrokine while antagonists decrease or eliminate such functions."  p. 54:2-7
	"An in vitro cell proliferation, cytotoxicity and cell death assay for measuring the effect of a protein on certain cells can be performed by using reagents well known and commonly available in the art for detecting cell replication and/or death Such cell proliferation modulation activities as can be measure in this type of assay are useful for treating tumor, tumor metastasis, infections, autoimmune diseases inflammation and other immune-related diseases."  p. 24:12-25